

What is claimed is:

1. A method for performing a business function in an object architecture,
comprising:

utilizing configuration information for directing at least one process to
5 perform said business function;

utilizing a reference library for defining data external to the object
architecture and supporting said configuration information;

interfacing said at least one process associated with the object architecture
with at least one in-memory object; and

10 utilizing at least one data storage object for preserving the data affected by
said at least one process.

2. The method of claim 1, wherein said reference library comprises at least
one business process configuration object for managing said configuration information.

15 3. The method of claim 2, wherein said reference library comprises at least
one data definition object for managing the definition of the data external to the object
architecture.

20 4. The method of claim 3, wherein said business process configuration object
directs said at least one process in conjunction with said data definition object.

5. The method of claim 4, wherein said data definition object is created by specifying source information for said data.

6. A method for supporting requirements of a business function, comprising:
5 creating a library of data source configuration objects;
constructing a plurality of flexible business function management objects;
receiving data based on the configuration objects;
decomposing said data based on the configuration objects;
interpreting said data source configuration objects;
10 performing at least one business function on the received data; and
returning the results of the processed information.

7. A method for reconciling data in a computing system, comprising:
utilizing configuration information for directing at least one process to
15 perform reconciliation of data;
utilizing a reference library for defining data external to said computing
system and supporting said configuration information;
interfacing said at least one process associated with the computing system
with at least one in-memory object; and
20 utilizing at least one data storage object for preserving the data affected by
said at least one process.

8. The method of claim 7, wherein said reference library comprises at least one business process configuration object for managing said configuration information.

9. The method of claim 8, wherein said reference library comprises at least one data definition object for managing the definition of the data external to the computing system.

10. The method of claim 9, wherein said business process configuration object directs said at least one process in conjunction with said data definition object.

11. The method of claim 10, wherein said data definition object is created by specifying source information for said data.

12. A method for monitoring data integrity in a computing system, the computing system having a plurality of data sources, comprising:
analyzing data from said plurality of data sources;
configuring the computing system to support data reconciliation for said data, said configuring based on the data analysis; and
reconciling data from said plurality of data sources, said reconciling dependent on information obtained during said configuring.

13. The method of claim 12, wherein said configuring comprises:
defining data characteristics for said plurality of data sources, said
characteristics allowing identification and interpretation of said data;
creating at least one data integrity control in accordance with said
5 analysis; and
configuring said at least one data integrity control, wherein said
configuring determines the data sources containing said data, matches said data between said
plurality of data sources, and compares individual data elements of the matched data.

10 14. The method of claim 13, wherein said reconciling comprises:
obtaining data from said plurality of data sources for said at least one data
integrity control; and
decomposing, matching, and identifying inconsistencies in said data by
utilizing said data characteristics, said data integrity control, and at least one system process to
15 obtain data reconciliation analysis for said data.

15. The method of claim 14, further comprising:
determining corrective instructions for said data reconciliation analysis;
and
20 utilizing information related to said corrective instructions.

16. The method of claim 15, wherein said configuring comprises:

configuring said at least one data integrity control for storing at least one field of an identifier for linking data records in the system to related data records in said plurality of data sources; and

5 configuring said at least one data integrity control for updating said information in said plurality of data sources.

17. The method of claim 16, wherein said utilizing comprises:

transmitting said information back to one of said plurality of data sources.

18. The method of claim 16, wherein said utilizing comprises:

transmitting said information back to an individual.

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19. A computing device comprising a computer readable medium having
computer readable code means embodied therein for supporting the process requirements for
data reconciliation, said computing device further comprising:

means for creating a library of data source configuration objects;

5 means for constructing a plurality of flexible business function

management objects;

means for receiving data based on the configuration objects;

means for decomposing said data based on the configuration objects;

means for interpreting said data source configuration objects;

10 means for performing at least one business function on the received data;

and

means for returning the results of the processed information.

Patent 3984-4008

20. A system for performing a business function in an object architecture,
comprising:

- a. a memory unit; and
- b. a processing unit disposed in communication with said memory unit, said

5 processing unit configured to:

utilize configuration information for directing at least one process to
perform said business function;

utilize a reference library for defining data external to the object
architecture and supporting said configuration information;

10 interface said at least one process associated with the object architecture
with at least one in-memory object; and

utilize at least one data storage object for preserving the data affected by
said at least one process.

15 21. The method of claim 20, wherein said reference library comprises at least
one business process configuration object for managing said configuration information.

22. The method of claim 21, wherein said reference library comprises at least
one data definition object for managing the definition of the data external to the object
20 architecture.

23. The method of claim 22, wherein said business process configuration
object directs said at least one process in conjunction with said data definition object.

24. The method of claim 23, wherein said data definition object is created by specifying source information for said data.

5 25. A system for reconciling data in a computing system, comprising:
a. a memory unit; and
b. a processing unit disposed in communication with said memory unit, said processing unit configured to:

utilize configuration information for directing at least one process to
10 perform reconciliation of data;

utilize a reference library for defining data external to said computing system and supporting said configuration information;

interface said at least one process associated with the computing system with at least one in-memory object; and

15 utilize at least one data storage object for preserving the data affected by said at least one process.

26. The method of claim 25, wherein said reference library comprises at least one business process configuration object for managing said configuration information.

20 27. The method of claim 26, wherein said reference library comprises at least one data definition object for managing the definition of the data external to the computing system.

28. The method of claim 27, wherein said business process configuration object directs said at least one process in conjunction with said data definition object.

5 29. The method of claim 28, wherein said data definition object is created by specifying source information for said data.

30. A system for monitoring data integrity in a computing system, the computing system having a plurality of data sources, comprising:

10 a. a memory unit; and
b. a processing unit disposed in communication with said memory unit, said processing unit configured to:

analyze data from said plurality of data sources;
configure the computing system to support data reconciliation for said
15 data, said configuring based on the data analysis; and
reconcile data from said plurality of data sources, said reconciling dependent on information obtained during said configuring.

31. The system of claim 30, wherein said processing unit is further configured to:

define data characteristics for said plurality of data sources, said characteristics allowing identification and interpretation of said data;

5 create at least one data integrity control in accordance with said analysis; and

configure said at least one data integrity control, wherein said configuring determines the data sources containing said data, matches said data between said plurality of data sources, and compares individual data elements of the matched data.

10 32. The system of claim 31, wherein said processing unit is further configured to:

obtain data from said plurality of data sources for said at least one data integrity control; and

15 decompose, match, and identify inconsistencies in said data by utilizing said data characteristics, said data integrity control, and at least one system process to obtain data reconciliation analysis for said data.

20 33. The system of claim 32, wherein said processing unit is further configured to:

determine corrective instructions for said data reconciliation analysis; and utilize information related to said corrective instructions.

34. The system of claim 33, wherein said processing unit is further configured

to:

configure said at least one data integrity control for storing at least one
field of an identifier for linking data records in the system to related data records in said plurality

5 of data sources; and

configure said at least one data integrity control for updating said
information in said plurality of data sources.

35. The system of claim 34, wherein said processing unit is further configured

10 to:

transmit said information back to one of said plurality of data sources.

36. The system of claim 34, wherein said processing unit is further configured

15 to:

transmit said information back to an individual.

37. A system for performing a business function in an object architecture,
comprising:

means for utilizing configuration information for directing at least one
process to perform said business function;

5 means for utilizing a reference library for defining data external to the
object architecture and supporting said configuration information;

means for interfacing said at least one process associated with the object
architecture with at least one in-memory object; and

means for utilizing at least one data storage object for preserving the data
10 affected by said at least one process.

38. The system of claim 37, wherein said reference library comprises at least
one business process configuration object for managing said configuration information.

15 39. The system of claim 38, wherein said reference library comprises at least
one data definition object for managing the definition of the data external to the object
architecture.

40. The system of claim 39, wherein said business process configuration
20 object directs said at least one process in conjunction with said data definition object.

41. The system of claim 40, wherein said data definition object is created by
specifying source information for said data.

42. A system for reconciling data in a computing system, comprising:

means for utilizing configuration information for directing at least one process to perform reconciliation of data;

5 means for utilizing a reference library for defining data external to said computing system and supporting said configuration information;

means for interfacing said at least one process associated with the computing system with at least one in-memory object; and

10 means for utilizing at least one data storage object for preserving the data affected by said at least one process.

43. The system of claim 42, wherein said reference library comprises at least one business process configuration object for managing said configuration information.

15 44. The system of claim 43, wherein said reference library comprises at least one data definition object for managing the definition of the data external to the computing system.

20 45. The system of claim 44, wherein said business process configuration object directs said at least one process in conjunction with said data definition object.

46. The system of claim 45, wherein said data definition object is created by specifying source information for said data.

47. A system for monitoring data integrity in a computing system, the
5 computing system having a plurality of data sources, comprising:
means for analyzing data from said plurality of data sources;
means for configuring the computing system to support data reconciliation
for said data, said configuring based on the data analysis; and
means for reconciling data from said plurality of data sources, said
10 reconciling dependent on information obtained during said configuring.

48. The system of claim 47, wherein said means for configuring the
computing system comprises:
means for defining data characteristics for said plurality of data sources,
15 said characteristics allowing identification and interpretation of said data;
means for creating at least one data integrity control in accordance with
said analysis; and
means for configuring said at least one data integrity control, wherein said
configuring determines the data sources containing said data, matches said data between said
20 plurality of data sources, and compares individual data elements of the matched data.

49 The system of claim 31, wherein means for reconciling data comprises:
 means for obtaining data from said plurality of data sources for said at
least one data integrity control; and
 means for decomposing, matching, and identifying inconsistencies in said
5 data by utilizing said data characteristics, said data integrity control, and at least one system
process to obtain data reconciliation analysis for said data.

50. The system of claim 49, further comprising:
 means for determining corrective instructions for said data reconciliation
10 analysis; and
 means for utilizing information related to said corrective instructions.

51. The system of claim 50, wherein said means for configuring the
computing system further comprises:
15 means for configuring said at least one data integrity control for storing at
least one field of an identifier for linking data records in the system to related data records in said
plurality of data sources; and
 means for configuring said at least one data integrity control for updating
said information in said plurality of data sources.

20 52. The system of claim 51, wherein said means for utilizing comprises:
 means for transmitting said information back to one of said plurality of
data sources.

53. The system of claim 51, wherein said means for utilizing comprises:
means for transmitting said information back to an individual.

5 54. A computer device comprising a computer readable medium having
computer readable code means embodied therein for performing a business function in an object
architecture, said computer readable code means further comprising:

means for utilizing configuration information for directing at least one
process to perform said business function;

10 means for utilizing a reference library for defining data external to the
object architecture and supporting said configuration information;

means for interfacing said at least one process associated with the object
architecture with at least one in-memory object; and

15 means for utilizing at least one data storage object for preserving the data
affected by said at least one process.

55. The computer readable code means of claim 54, wherein said reference
library comprises at least one business process configuration object for managing said
configuration information.

20 56. The computer readable code means of claim 55, wherein said reference
library comprises at least one data definition object for managing the definition of the data
external to the object architecture.

57. The computer readable code means of claim 56, wherein said business process configuration object directs said at least one process in conjunction with said data definition object.

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58. The computer readable code means of claim 57, wherein said data definition object is created by specifying source information for said data.

59. A computer device comprising a computer readable medium having computer readable code means embodied therein for reconciling data in a computing system, said computer readable code means further comprising:

means for utilizing configuration information for directing at least one process to perform reconciliation of data;

means for utilizing a reference library for defining data external to said computing system and supporting said configuration information;

means for interfacing said at least one process associated with the computing system with at least one in-memory object; and

means for utilizing at least one data storage object for preserving the data affected by said at least one process.

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60. The computer readable code means of claim 59, wherein said reference library comprises at least one business process configuration object for managing said configuration information.

61. The computer readable code means of claim 60, wherein said reference library comprises at least one data definition object for managing the definition of the data external to the computing system.

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62. The computer readable code means of claim 61, wherein said business process configuration object directs said at least one process in conjunction with said data definition object.

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63. The computer readable code means of claim 62, wherein said data definition object is created by specifying source information for said data.

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64. A computer device comprising a computer readable medium having computer readable code means embodied therein for monitoring data integrity in a computing system, the computing system having a plurality of data sources, said computer readable code means further comprising:

means for analyzing data from said plurality of data sources;

means for configuring the computing system to support data reconciliation for said data, said configuring based on the data analysis; and

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means for reconciling data from said plurality of data sources, said reconciling dependent on information obtained during said configuring.

65. The computer readable code means of claim 64, wherein said means for configuring the computing system comprises:

means for defining data characteristics for said plurality of data sources, said characteristics allowing identification and interpretation of said data;

5 means for creating at least one data integrity control in accordance with said analysis; and

means for configuring said at least one data integrity control, wherein said configuring determines the data sources containing said data, matches said data between said plurality of data sources, and compares individual data elements of the matched data.

10 66. The computer readable code means of claim 65, wherein means for reconciling data comprises:

means for obtaining data from said plurality of data sources for said at least one data integrity control; and

15 means for decomposing, matching, and identifying inconsistencies in said data by utilizing said data characteristics, said data integrity control, and at least one system process to obtain data reconciliation analysis for said data.

67. The computer readable code means of claim 66, further comprising:

20 means for determining corrective instructions for said data reconciliation analysis; and

means for utilizing information related to said corrective instructions.

68. The computer readable code means of claim 67, wherein said means for configuring the computing system further comprises:

means for configuring said at least one data integrity control for storing at least one field of an identifier for linking data records in the system to related data records in said plurality of data sources; and

means for configuring said at least one data integrity control for updating said information in said plurality of data sources.

69. The computer readable code means of claim 68, wherein said means for utilizing comprises:

means for transmitting said information back to one of said plurality of data sources.

70. The computer readable code means of claim 68, wherein said means for utilizing comprises:

means for transmitting said information back to an individual.

71. A system for supporting requirements of a business function, comprising:
- a. a memory unit; and
 - b. a processing unit disposed in communication with said memory unit, said

processing unit configured to:

5 create a library of data source configuration objects;

 construct a plurality of flexible business function management objects;

 receive data based on the configuration objects;

 decompose said data based on the configuration objects;

 interpret said data source configuration objects;

10 perform at least one business function on the received data; and

 return the results of the processed information.

72. A system for supporting requirements of a business function, comprising:

 means for creating a library of data source configuration objects;

15 means for constructing a plurality of flexible business function

management objects;

 means for receiving data based on the configuration objects;

 means for decomposing said data based on the configuration objects;

 means for interpreting said data source configuration objects;

20 means for performing at least one business function on the received data;

and

 means for returning the results of the processed information.

73. A computer device comprising a computer readable medium having computer readable code means embodied therein for supporting requirements of a business function, said computer readable code means further comprising:

means for creating a library of data source configuration objects;

means for constructing a plurality of flexible business function management objects;

means for receiving data based on the configuration objects;

means for decomposing said data based on the configuration objects;

means for interpreting said data source configuration objects;

means for performing at least one business function on the received data;

and

means for returning the results of the processed information.

74. A method for supporting the process requirements for data reconciliation, comprising:

creating a library of data source configuration objects;

constructing a plurality of flexible business function management objects;

receiving data based on the configuration objects;

decomposing said data based on the configuration objects;

interpreting said data source configuration objects;

performing at least one business function on the received data; and

returning the results of the processed information.

75. A system for supporting the process requirements for data reconciliation,
comprising:

- a. a memory unit; and
- b. a processing unit disposed in communication with said memory unit, said

5 processing unit configured to:

construct a plurality of flexible business function management objects;
receive data based on the configuration objects;
decompose said data based on the configuration objects;
interpret said data source configuration objects;
10 perform at least one business function on the received data; and
return the results of the processed information.

76. A system for supporting the process requirements for data reconciliation,
comprising:

15 means for creating a library of data source configuration objects;
means for constructing a plurality of flexible business function
management objects;
means for receiving data based on the configuration objects;
means for decomposing said data based on the configuration objects;
20 means for interpreting said data source configuration objects;
means for performing at least one business function on the received data;
and
means for returning the results of the processed information.